

FIG. 1

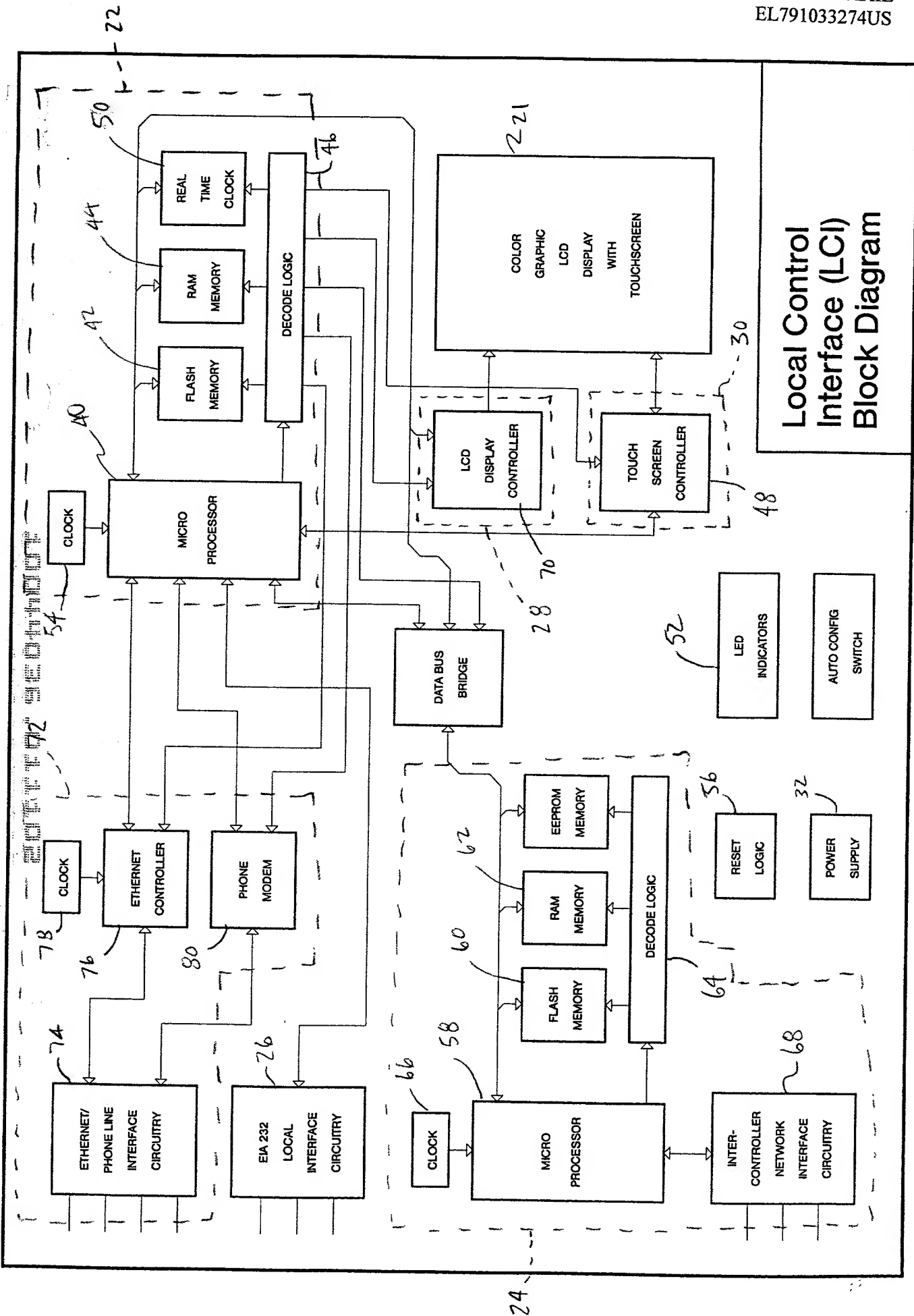
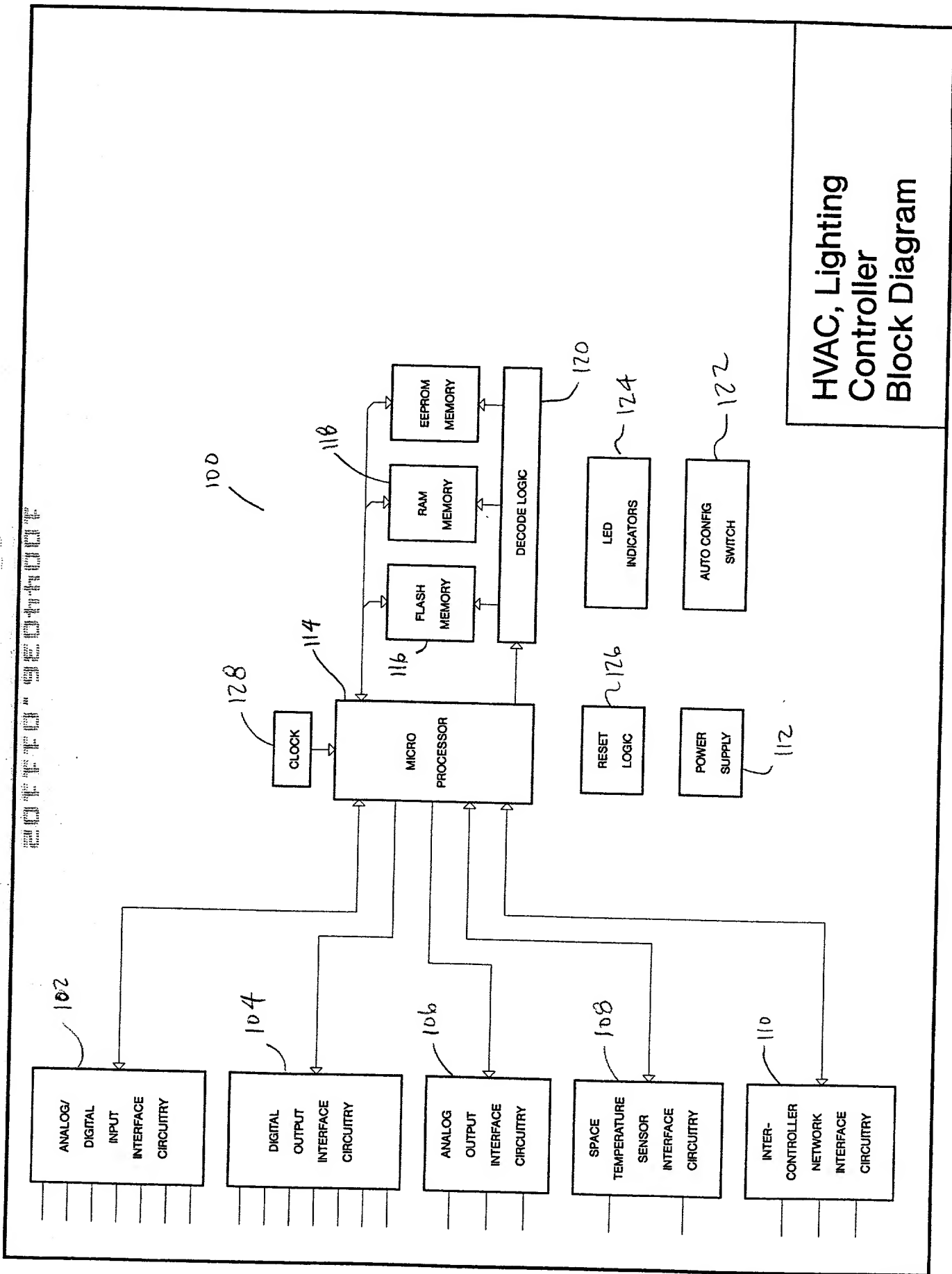


Fig. 2



HVAC, Lighting
Controller
Block Diagram

FIG. 3

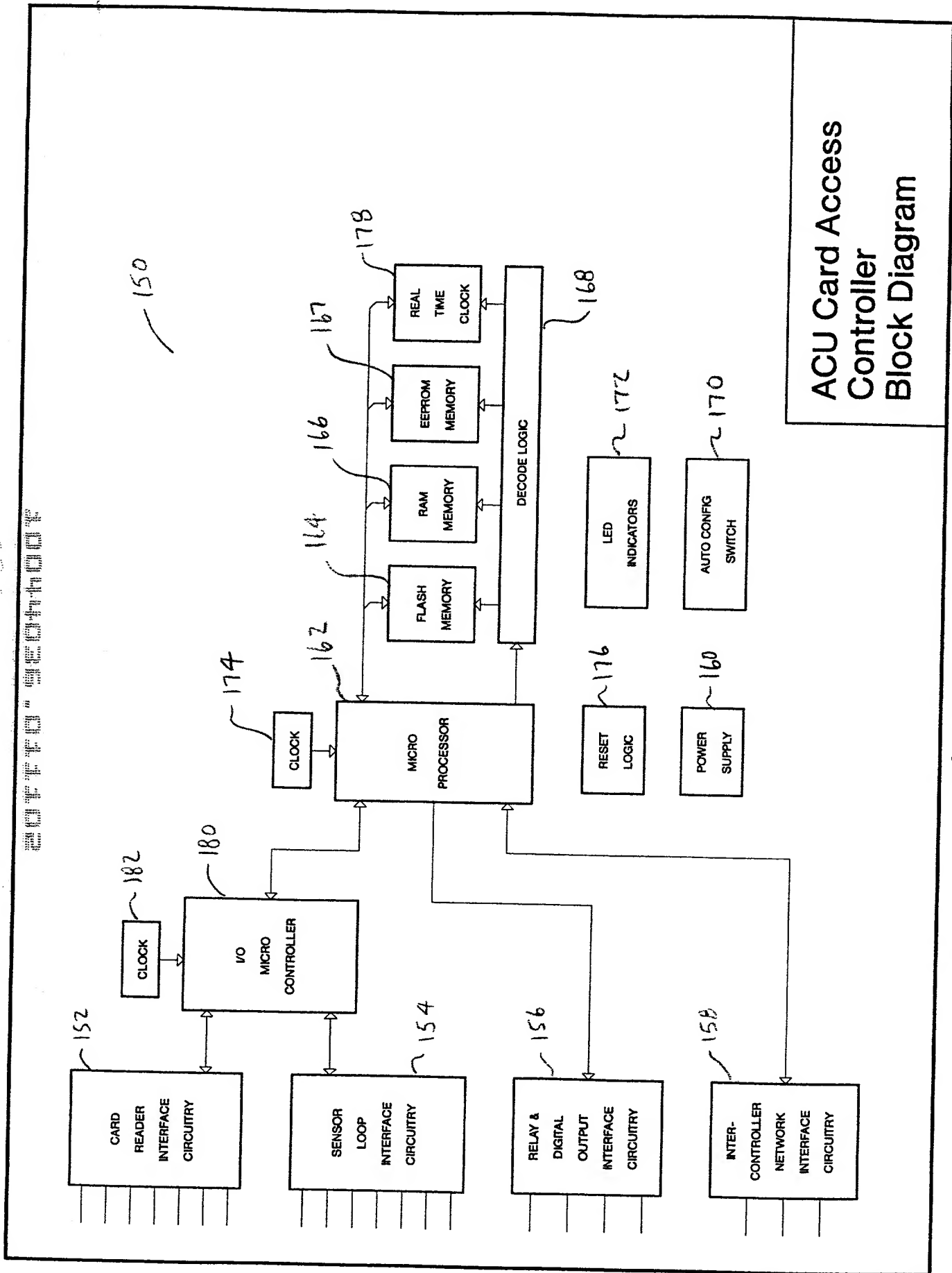


Fig. 4

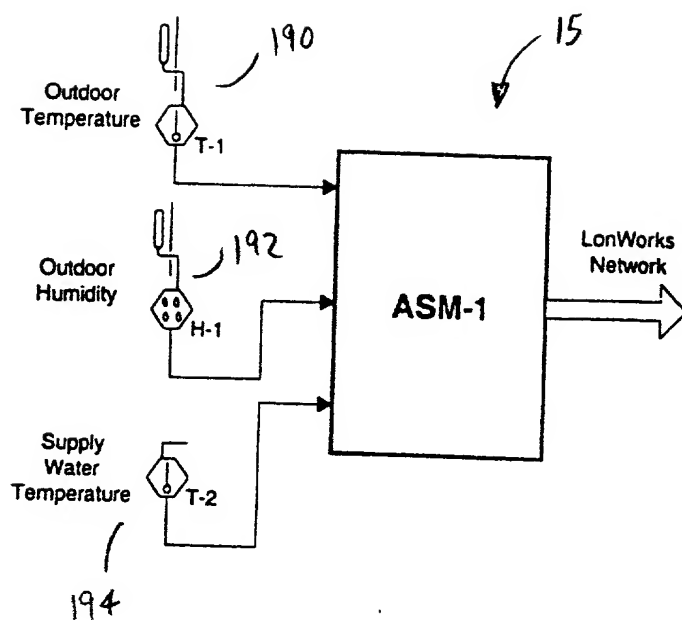


Fig. 5

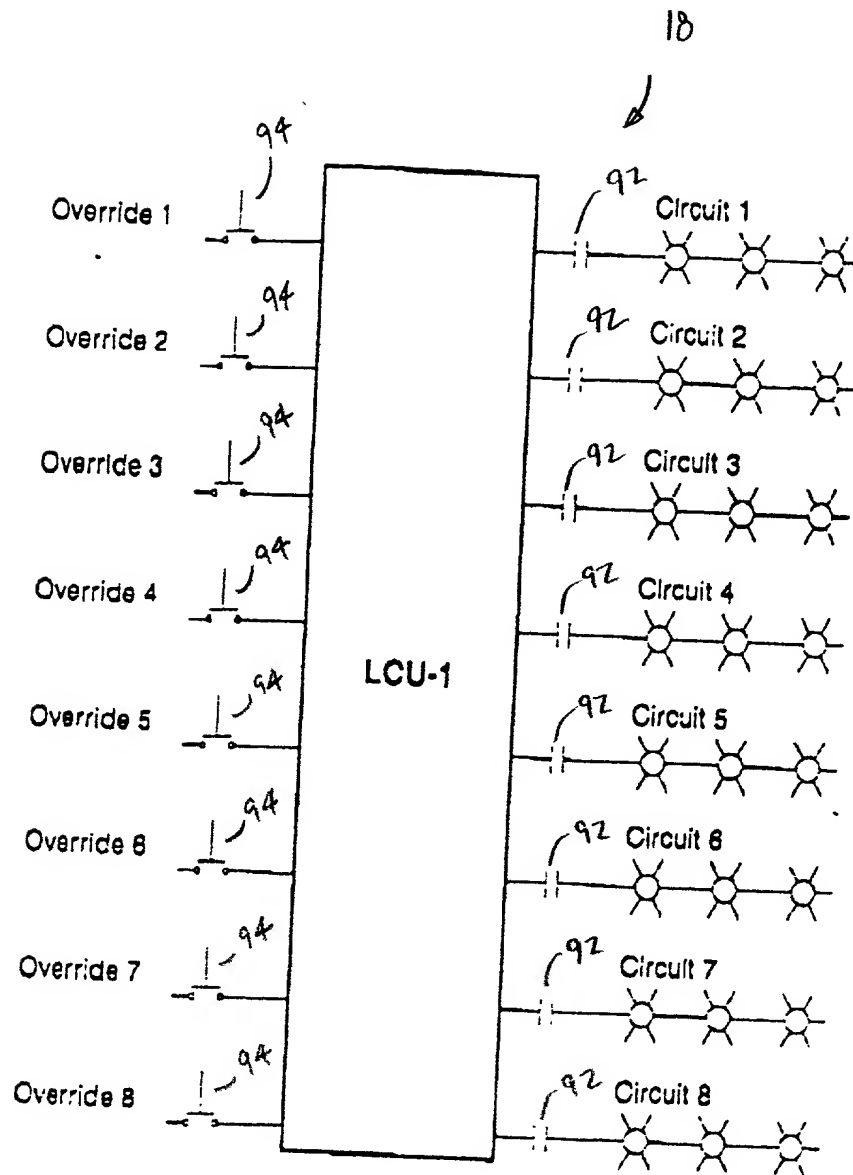


Fig. 6

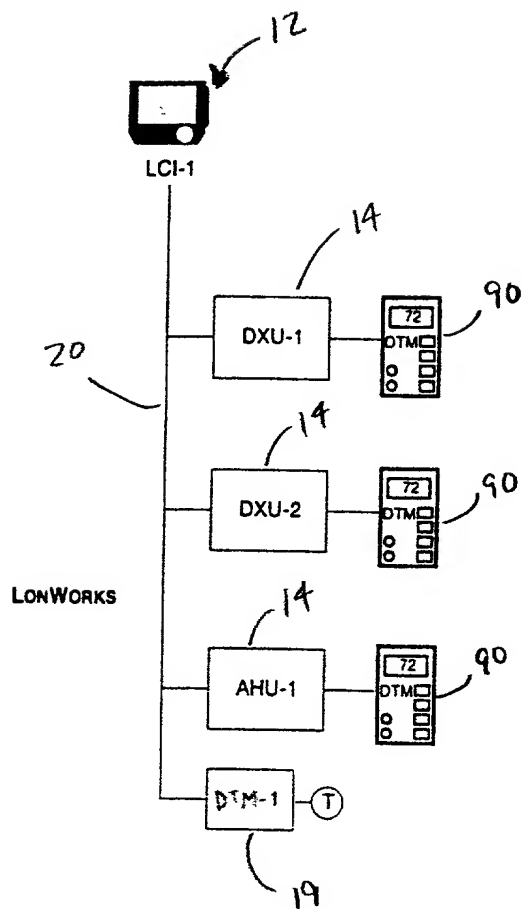


Fig. 7

Number of Bits	Description
8	command (value = 101)
8	system (LCI) time - hour
8	system (LCI) time - minute
8	system (LCI) time - second
8	occupancy mode (1=unoccupied, 0=occupied)

Fig. 8

Number of Bits	Description
8	command (value = 101)
8	Device ID assigned by LCI
16	Outside temperature (SNVT_temp_p format, 0x7fff = not supported)
16	Outside humidity (SNVT_lev_percent format, 0x7fff = not supported)
16	Supply water temperature (SNVT_temp_p format, 0x7fff = not supported)

Fig 9

Number of Bits	Description
8	command (value = 25)
2	Entry side mode (0: card, 1: card/PIN, 2: cipher, 3: PIN)
2	Exit side mode (0: card, 1: card/PIN, 2: cipher, 3: PIN)
1	Enable / Disable Flag for entry side (1=disable)
1	Enable / Disable Flag for exit side
34	reserved - set to 0
16	system (LCI) time - year
8	system (LCI) time - month
8	system (LCI) time - day
8	system (LCI) time - hour
8	system (LCI) time - minute
8	system (LCI) time - second
8	system (LCI) time - day of week (1=Sunday)
8	IAC device ID

Fig. 10

Number of Bits	Description
8	command (value = 25)
8	IAC device ID

Fig. 11

Field	Size	Description	Data Type
msg_number	1 byte	Message 101 = EXP_PING	unsigned short

Fig. 12

Field	Size	Description	Data Type
unit_number	1 byte	LCI assigned unit number	unsigned short
outdoor_temp	2 bytes	Outdoor temperature (65535= not supported) 32767	SNVT_temp_p
outdoor_humidity	2 bytes	Outdoor humidity (65535 = not supported) 32767	SNVT_lev_percent
supply_temp	2 bytes	Supply water temperature (65535 = not supported) 32767	SNVT_temp_p

Fig. 13

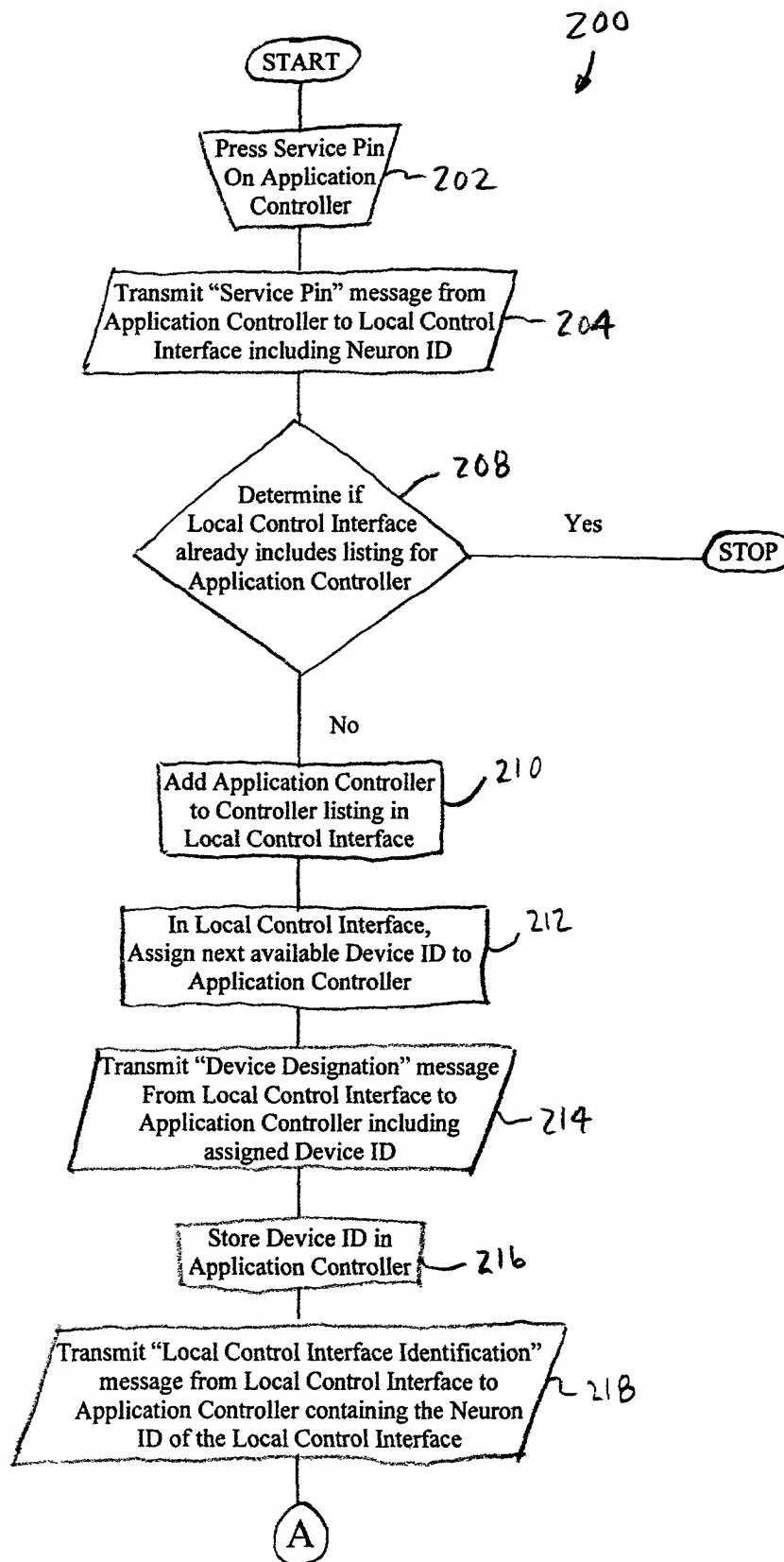


FIG 14A

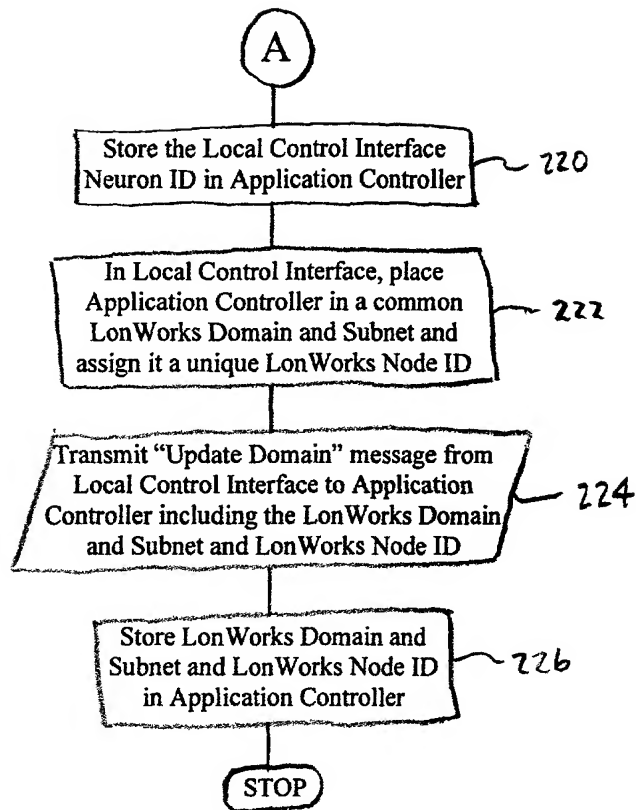


FIG. 14B

Number of Bits	Description
8	command (value = 20)
3	reserved
2	access mode (0: card, 1: card/PIN, 2: cipher, 3: PIN)
1	reverse card read flag
8	Device ID * 2 (bit 0 determines entry / exit side) Bit 0=0, entry side, bit0=1, exit side
64	card number
32	PIN/Cipher number sequence (8 characters max. in BCD format)

Fig. 15

Number of Bits	Description
8	command (value = 58)
8	reserved
8	Device ID * 2 (bit 0 determines entry / exit side) Bit 0=0, entry side, bit0=1, exit side
8	response (0-card unknown, 1-access denied, 2-access granted, 3-access complete, 4-access extended, 5-open ingress portal, 6-open egress portal, 7-open both portals)

Fig. 16

Number of Bits	Description
8	command (value = 59)
8	Device ID * 2 (bit 0 determines entry / exit side) Bit 0=0, entry side, bit0=1, exit side
8	reason for door opening (0= exit pushbutton, nonzero = access request)

Fig 17

Number of Bits	Description
8	command (value = 103)
8	device ID of controller
8	reserved (set to 5)
up to 8x40	ASCII string containing text describing the alarm

Fig. 18

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Field	Size	Description	Data Type
msg_number	1 byte	Message 101 = EXP_PING	unsigned short
sys_hour	1 byte	System Time – hours 0-23	unsigned short
sys_min	1 byte	System Time – minutes 0-60	unsigned short
sys_sec	1 byte	System Time – seconds 0-60	unsigned short
Lighting Zone Occupancy	8 bytes	Current occupancy mode for Lighting Zones 1-8 (Zone 1 is first byte)	snvt_occupancy
Lighting Zone Override	8 bytes	Current override mode for Lighting Zones 1-8 (Zone 1 is first byte)	snvt_occupancy

Fig. 19

Field	Size	Description	Data Type
unit_number	1 byte	LCI assigned unit number	unsigned short

Fig. 20